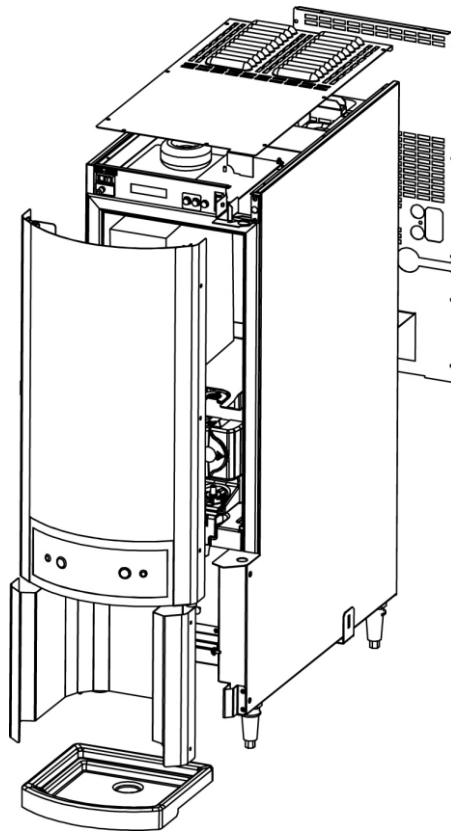


autonumis

Bravanti machine



Installation and Service Manual

This guide contains instructions on
how to install and service
Autonumis Bravanti machines

Note:

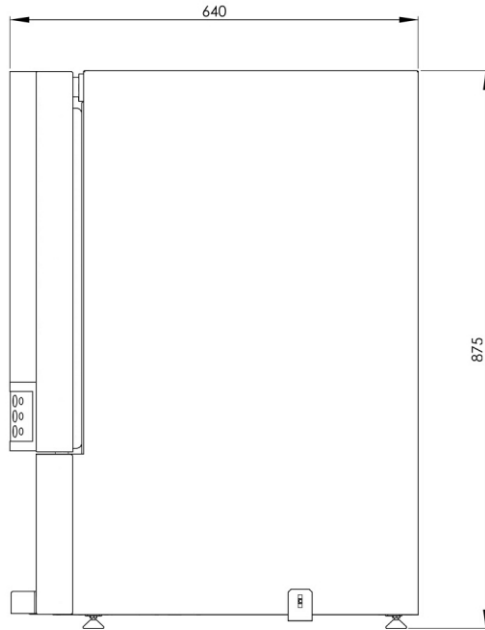
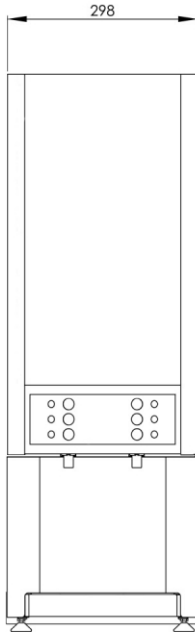
Installation of this equipment should be undertaken by a trained and authorised engineer.

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Due to our policy of continual product improvement any diagrams and illustrations of the product and/or its component parts contained within this document may appear different from that/those supplied. However the contents of this document and the functionality of the product and/or its components that it describes remain unaffected.

Specification



Weight:

Dry = 55.5 kg Packed = 62.5kg
Installed = 64.5kg

Electrical:

UK/EU 230v 50hz

Water connection:

3/4" BSP hose connection

Water pressure:

Minimum dynamic water pressure 2.5 Bar
Maximum dynamic water pressure 8 Bar
Pressure regulated in machine to suit site conditions

Refrigeration:

R134a Hermetic compressor
Concentrate storage compartment chilled to 4°C

Brix adjustment:

Electronic control

Pump:

Easy load peristaltic pump with 3 roller rotor 24v DC
Motor. Fits silicone tube 6.4mm I/D x 2,4mm wall

Portion control:

Programmable drink shot size or free flow

Product capacity:

2 x 5 litre disposable bag in box

Installation

1. Remove cardboard packaging from machine.
2. The following components should be provided with the machine:
 - Mains lead
 - Plastic funnel
 - Water inlet hose
 - Anti-tilt bracket
 - 2 off thumb screws for anti-tilt bracket
 - 2 off tube clips
 - Measuring cylinder
 - Drip tray and grille
 - 2 off Mixing valve assemblies
 - Spare 'O' rings (small) for mixing valve
 - Spare 'O' rings (large) for mixing valve
 - Pot of food grade silicone grease
 - Plastic bottle full of tank water conditioner
3. Remove machine from transportation pallet by unscrewing the two thumb nuts either side of the unit.
4. Locate the unit on a suitable surface with a depth of no less than 600mm, no more than 1 metre from a standard 3/4" water stop valve and electrical socket.

Installation (contd)

5. Slide drip tray and grille into position in base of machine.

6. Fit the mixing valve assemblies. Note! A small amount of food grade silicone grease (provided in the installation kit) should be applied to the 'O' rings to aid assembly. This should be reapplied after every cleaning.

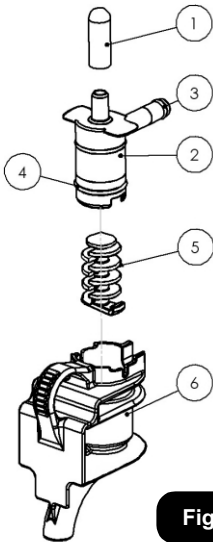


Fig 1

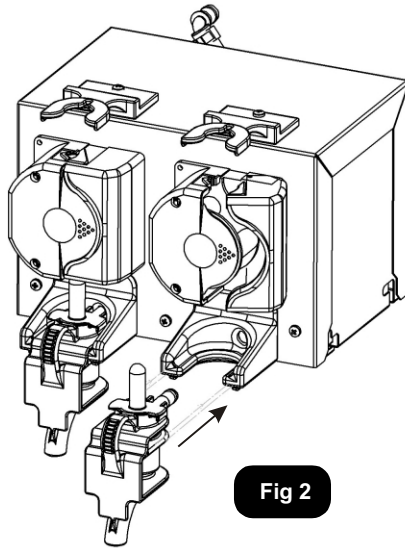


Fig 2

1. Disposable cap
2. Mixing chamber
3. Small 'O' rings
4. Large 'O' ring
5. Mixer
6. Spout

Installation (contd)

7. Fill the water tank.

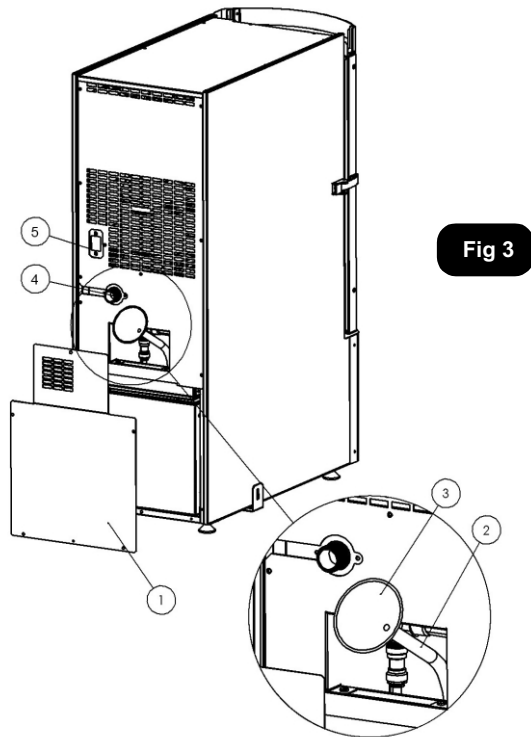


Fig 3

Without electrics or water connected, remove lower rear cover '1'. Pull out fill pipe '2'. Remove and retain plug in end of pipe.

Insert funnel '3' provided in the installation kit.

Pour in tank water conditioner provided in the installation kit.

Fill the tank with 8.5 litres of clean water. If too much is inserted it will overflow from the tube in the front of the machine into the drip tray.

Remove the funnel and replace the plug into the end of the pipe.

Push the fill pipe back inside the machine.

Installation (contd)

8. Connect the water and electrics

Remove the protective cap from threaded inlet '4' (Fig 3).

Connect the Mains Water Inlet Hose to threaded inlet '4' (Fig 3). We recommend that a shutoff tap be fitted to allow isolation from the mains water supply when necessary.

Switch the water supply on and check for leaks.

Connect the power lead to connector '5' (Fig 3).

Switch on and leave for a minimum of 1 hour to stabilise temperature before calibrating the water flow rate.

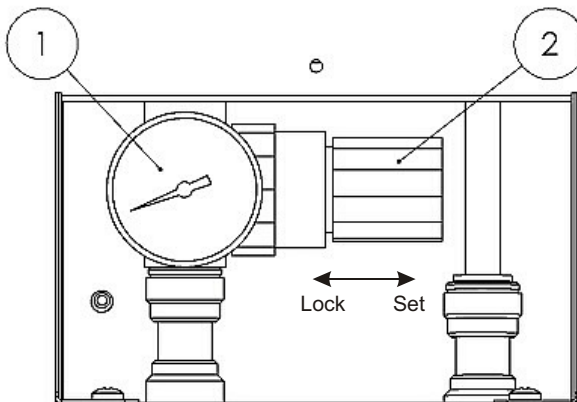
9. Flush through the water system

Set the dispenser to 'Flush' mode by switching from 'Run' to 'Flush'. Switch is located in the top left hand corner of the control panel.

Position a suitable container under the left or right dispense nozzle as appropriate.

Press and hold the dispense button on the front of the door until the water flow from the nozzle is clear and free from trapped air and sanitisation fluid. It is recommended that at least 1 litre of water is flushed through each dispenser on installation.

10. Calibrate the water flow rate



1 = Gauge
2 = Adjusting knob

Fig 4

Installation (contd)

10. Calibrate the water flow (contd)

Pull the adjusting knob '2' in the direction shown in Fig 4 until a click is heard.

The regulator is pre-set and will only require a small adjustment.

With the display reading 'Machine Ready' press and hold both the 'Set' and '+/1' buttons together for 5 seconds. The machine will reset and then display 'Calibrate'

Place the measuring cylinder supplied under one of the dispense nozzles and press any of the corresponding drinks buttons. This will dispense a measured shot of water into the cylinder. This should measure 200ml +/- 2ml. If the volume is incorrect, correct as necessary by turning the adjusting knob clockwise to increase the volume or anti-clockwise to reduce the volume.

Once the correct volume has been achieved, push the adjusting knob back in the opposite direction to that shown in Fig 4 until a click is heard. This locks the pressure regulator and prevents inadvertent adjustment of the pressure.

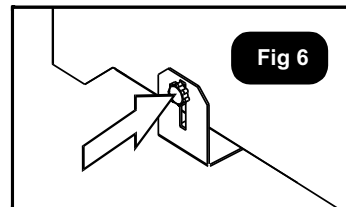
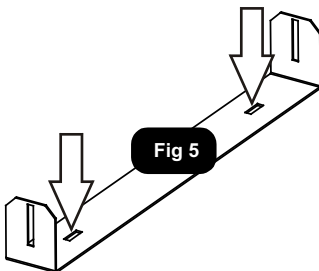
Press the 'Set' button to exit 'Calibrate' and return to 'Machine Ready'.

Return the machine from 'Flush' to 'Run' mode by pressing the switch in the top left hand corner of the control panel.

Replace the rear cover.

11. Secure the anti-tilt mounting bracket in the desired location on the chosen surface using suitable fixings (**Fig 5**).

Secure the machine to the anti-tilt mounting bracket using the two M5 thumbscrews provided (**Fig 6**).



Juice packs can now be fitted and the correct Brix level and drink shot sizes set as described in the Operators Manual.

Changing from single to multi-volume dispense

1. Slide Single Dispense Panel upwards to remove and replace with Multi-Dispense Panel (Fig 7).

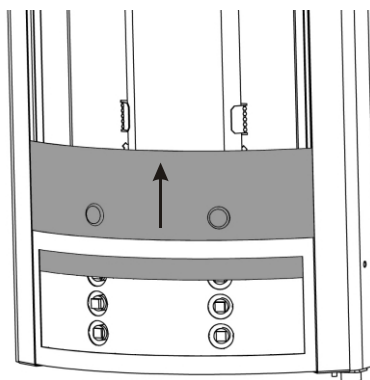


Fig 7

2. Slide the Dil Switch on the rear of the Push Button PCB (behind the Dispense Panel area) from left to right (Fig 8).
This illuminates and activates all three dispense buttons. In single volume dispense only the middle button is illuminated and active.

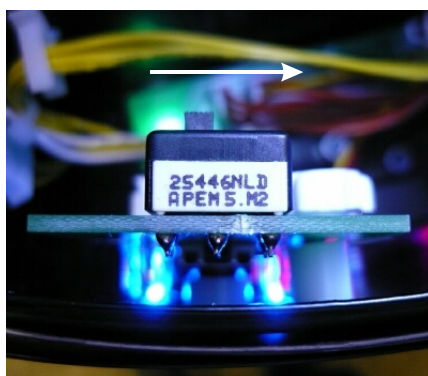


Fig 8

Removal of fridge deck

The fridge deck can be removed from the machine to enable easier access to chiller components. It is recommended that the chiller is emptied of water by syphoning or pumping before removal to make the unit lighter. Remember to re-fill the chiller with 8.5 litres of clean water on reassembly (see page 5 for details).

1. Remove the Mains Water Inlet Hose and Power Lead.

2. Remove the Upper and Lower Rear Covers.

3. Remove the M6 Socket Head Screw in the top left hand corner of the compressor compartment (Fig 9).

4. Remove screw attaching earth wire and disconnect 8 way electrical connector (Number 1, Fig 10).

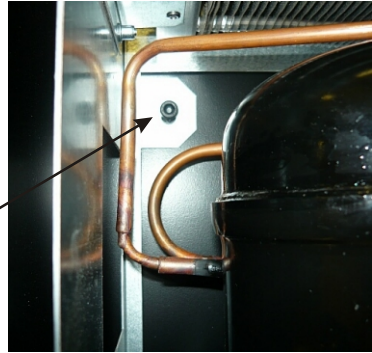


Fig 9



Fig 10

Removal of fridge deck (contd.)

5. Slide back Armaflex and disconnect the pipe carrying chilled water to the dispense module in the front of the machine (Number 2, Fig 10).
6. Slide back Armaflex and disconnect the two pipes carrying chilled water around the cabinet (Numbers 3 & 4, Fig 10).
7. Slide the unit out of the machine.

Reverse the process to re-fit the fridge unit.

Ensure all water connections are securely made and do not leak. Armaflex to be repositioned over pipe joints.

Parts list - refrigeration deck

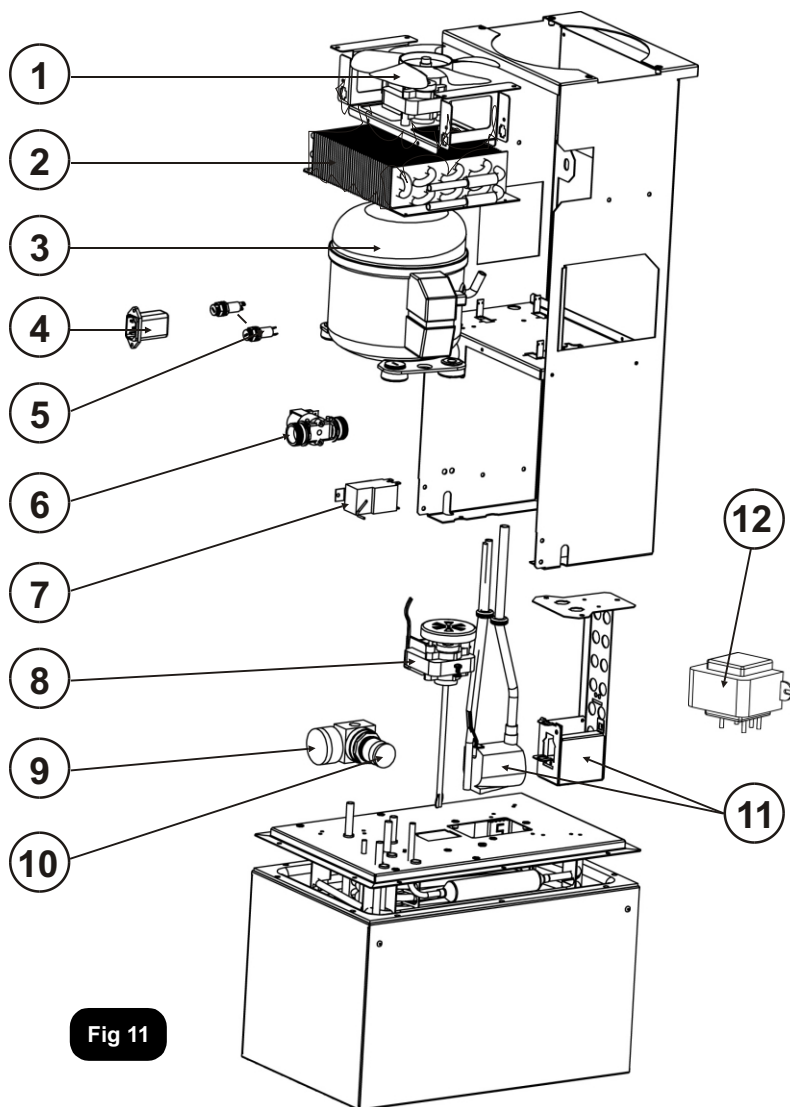


Fig 11

Parts list - refrigeration deck

1	Condenser Fan
2	Condenser Brazed Assembly
3	Compressor
4	Electrical Filter
5	Fuse Holders and Fuses
6	Water Inlet Solenoid Valve
7	Thermostat
8	Agitator Motor Assembly
9	Pressure Gauge
10	Pressure Reducing Valve
11	Water Pump Assembly
12	Transformer (attached to cabinet)

Parts list - door assembly

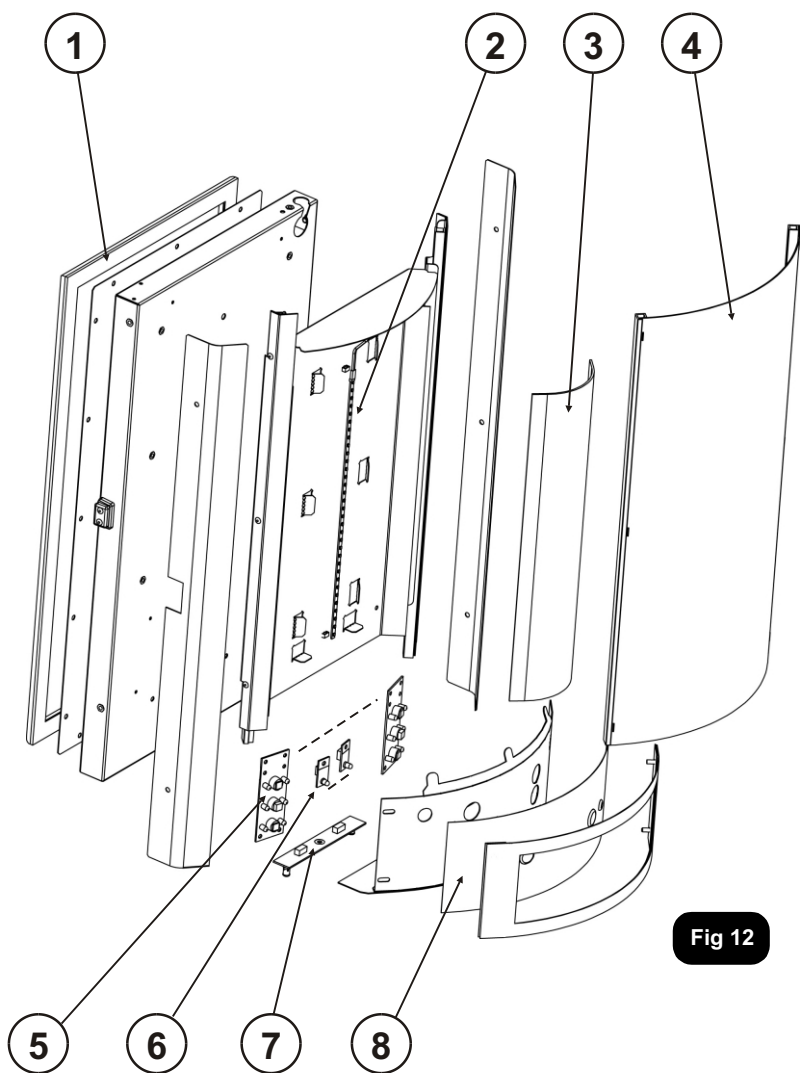


Fig 12

Parts list - door assembly

1	Door Compression Seal
2	LED Strip Wired Assembly
3	Diffuser
4	Door Curve Assembly
5	Product Selection Button PCB Assembly
6	Low Bag Light LED PCB Assembly
7	Downlighter PCB Assembly
8	Button Overlay Assembly (1 or 3 button selection)

Parts list - dispense module

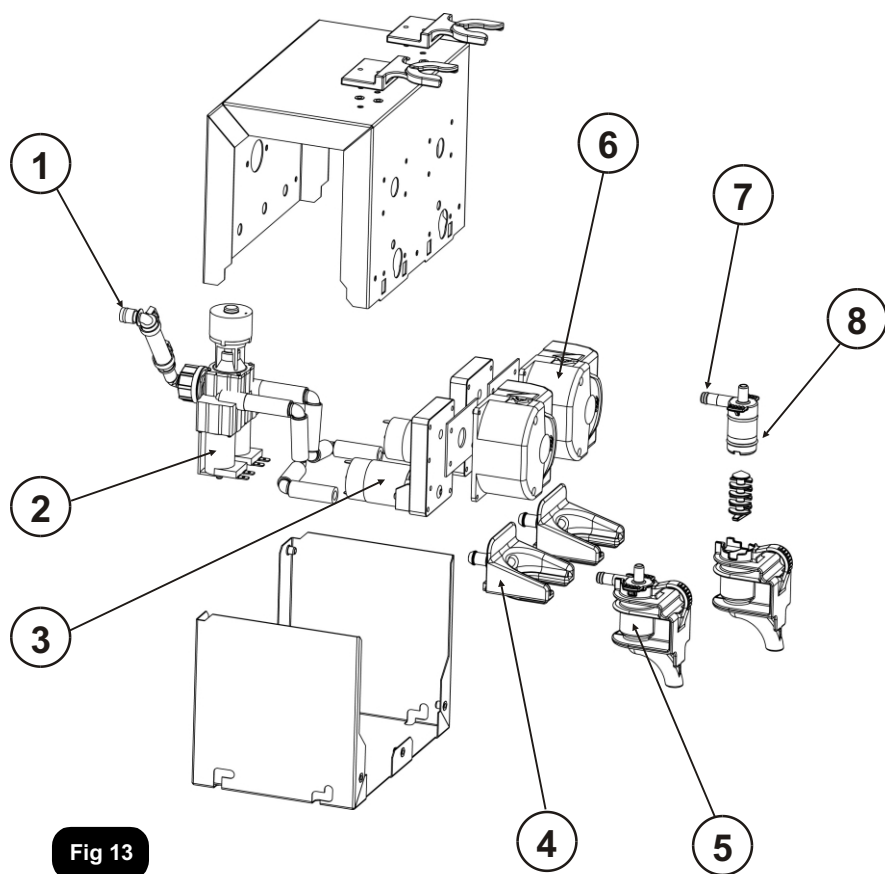


Fig 13

Parts list - dispense module

1	CPC Coupling
2	Flow Control Valve
3	Motor and Gearbox
4	Mount Moulding
5	Mixing Assembly (Complete)
6	Peristaltic Pump Head
7	Small 'O' Ring
8	Large 'O' Ring

Parts list - display area

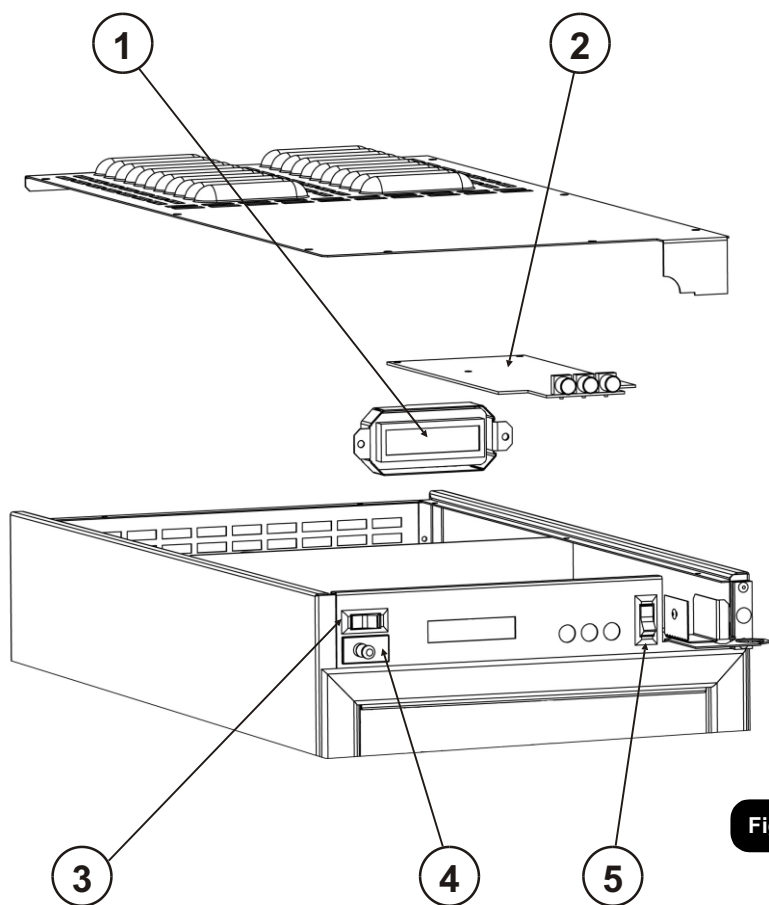


Fig 14

Parts list - display area

1	LCD Header Assembly
2	Control PCB Assembly
3	Flush Mode Switch
4	Door Safety Switch
5	Light Switch

Parts list - misc.

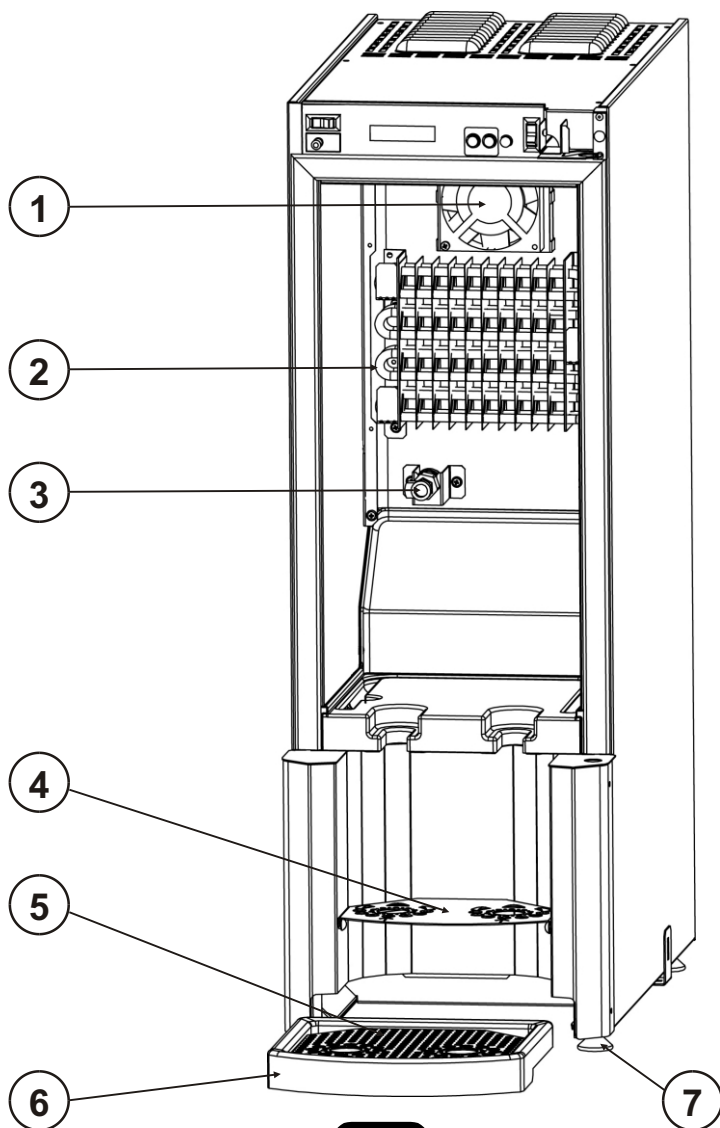


Fig 15

Parts list - misc.

1	Inner Cooling Fan Assembly
2	Cooling Coil Assembly
3	CPC Coupling (Thread)
4	Cup Stand
5	Drip Tray Grille
6	Drip Collection Tray
7	Adjustable Foot

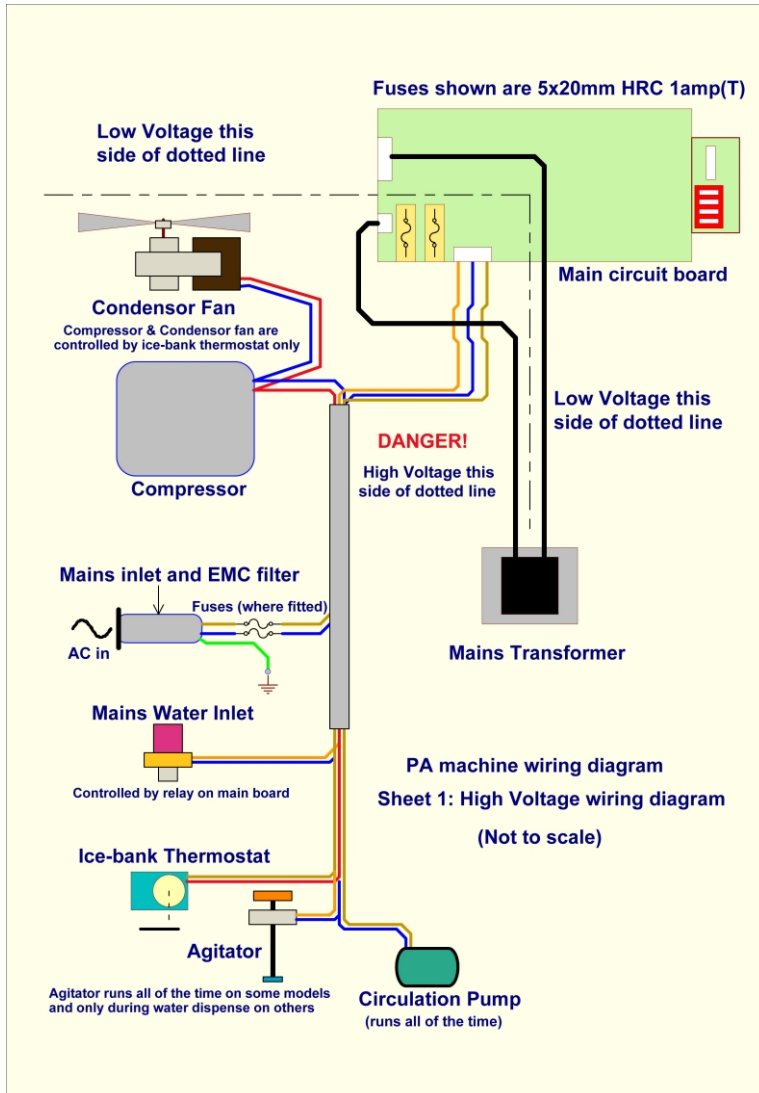
Troubleshooting

FAULT	POTENTIAL CAUSE	SOLUTION
Machine appears dead	No power to cabinet	Check power supply to cabinet
	Fuse failed in plug (if fitted)	Check fuse and replace
	Internal fuse blown	Check fuses and replace
	Fuse on rear of machine blown	Check fuses and replace
Lights not working	No power to lights	Check light switch is 'on'
	LED failure	Replace relevant LED board
Machine not dispensing water	Cabinet in 'Out of Service' mode	Return to 'Machine Ready' status
	Dispense module not connected properly	Check water and electrical connections to dispense module
	Water supply not connected or turned off	Check connections and stop tap
	Water frozen in cooling coil	Unplug dispenser and defrost. Check thermostat. Ensure thermostat probe is fully located into tube in tank.
	Water inlet solenoid failed shut	Replace water inlet valve
	Pressure reducing valve fully shut	Open up and recalibrate
	Flow control valve solenoid failed shut	Replace flow control valve
	Main PCB failure	Check fuses, replace PCB
Machine not dispensing concentrate	Machine in 'Flush' mode	Return to 'Machine Ready' status
	Cabinet in 'Out of Service' mode	Return to 'Machine Ready' status
	Concentrate box/container empty	Replace box/refill container
	Concentrate tube not connected properly	Check connection and tube is correctly routed through pump
	Concentrate tube has sealing clip still connected	Remove clip
	Dispense module not connected properly	Check water and electrical connections to dispense module
	Door not closed properly	Check door is fully closed
	Door safety switch failure	Replace switch
	Main PCB failure	Check fuses, replace PCB

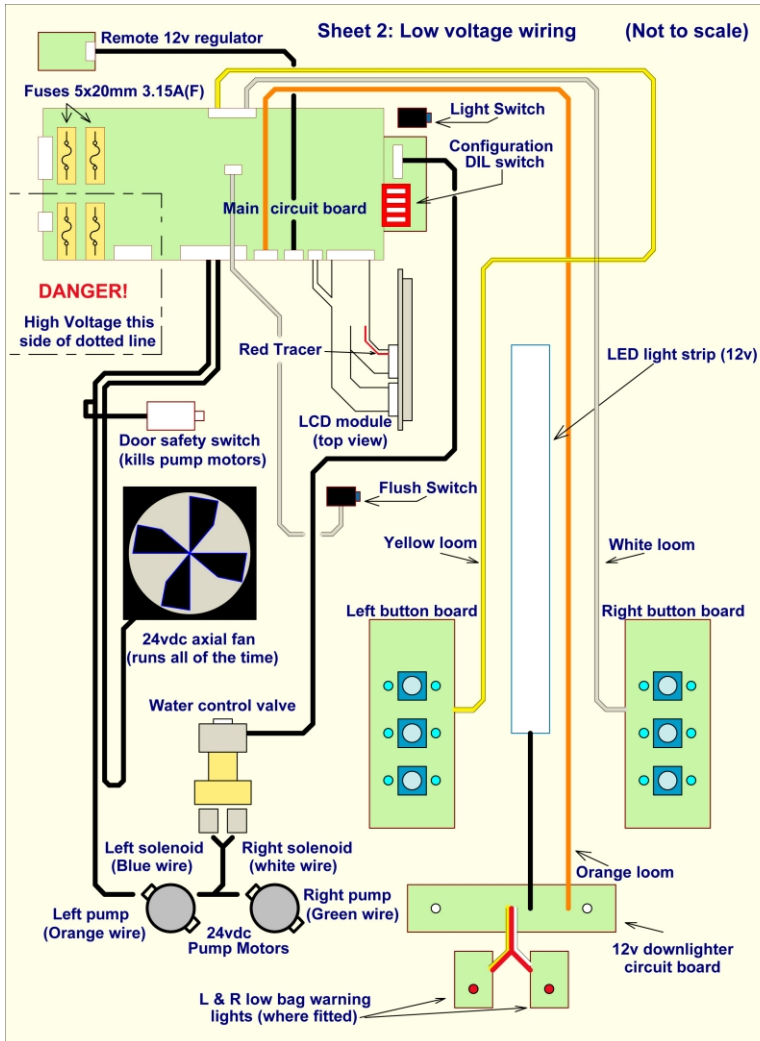
Troubleshooting (contd.)

FAULT	POTENTIAL CAUSE	SOLUTION
Drink not cold enough	Refrigeration system failure	Check compressor, condenser fan, agitator motor, thermostat etc. Replace as necessary.
Machine noisy	Fan failure	Check condenser fan and inner cabinet cooling fan
LCD display not working/corrupted	No power to cabinet	Check power supply to cabinet
	Main PCB failure	Check fuses, replace PCB
	LCD header assembly failed	Replace LCD display
Dispense button(s) not working	Machine is set for multi-volume dispense with single dispense panel fitted	Change to single dispense (see Fig 8)
	Product Selection Button PCB Assembly failure	Replace faulty PCB

Wiring diagram



Wiring diagram



Notes

Notes

autonumis

Autonumis Ltd, Cirencester Rd,
Tetbury, Gloucestershire.
GL8 8SA United Kingdom
Tel +44 (0) 1666 502641
Fax +44 (0) 1666 504397

